WASHINGTON STATE DEPARTMENT OF ECOLOGY

# Addendum A
# Part A Form

| Date Received | Reviewed by: | | Date: | |
|---|---|---|---|---|
| Month Day Year | Approved by: | | Date: | |
| | Please refer to instructions for completing this form. | | | |

**I. This form is submitted to: (place an "X" in the appropriate box)**

| | |
|---|---|
| ☒ | Request modification to a final status permit (commonly called a "Part B" permit) |
| ☐ | Request a change under interim status |
| ☐ | Apply for a final status permit. This includes the application for the initial final status permit for a site or for a permit renewal (i.e., a new permit to replace an expiring permit). |
| ☐ | Establish interim status because of the wastes newly regulated on: (Date) |
| | List waste codes: |

**II. EPA/State ID Number**

WA7890008967

**III. Name of Facility**

U.S. Department of Energy – Hanford Facility

**IV. Facility Location (Physical address not P.O. Box or Route Number)**

**A. Street**

2440 Stevens Drive

| City or Town | State | ZIP Code |
|---|---|---|
| Richland | WA | 99354 |

| County Code (if known) | County Name |
|---|---|
| 005 | Benton |

| B. Land Type | C. Geographic Location | | D. Facility Existence Date |
|---|---|---|---|
| | Latitude (degrees, mins, secs) | Longitude (degrees, mins, secs) | Month Day Year |
| F | Refer to TOPO Map (Section XV.) | | 03 02 1943 |

**V. Facility Mailing Address**

**Street or P.O. Box**

P.O. Box 550

| City or Town | State | ZIP Code |
|---|---|---|
| Richland | WA | 99352 |

| VI. Facility contact (Person to be contacted regarding waste activities at facility) | |
|---|---|
| **Name (last)** | **(first)** |
| Vance | Brian |
| **Job Title** | **Phone Number (area code and number)** |
| Manager | (509) 376-7395 |
| **Contact Address** | |
| **Street or P.O. Box** | |
| P.O. Box 550 | |
| **City or Town** | **State** / **ZIP Code** |
| Richland | WA / 99352 |

| VII. Facility Operator Information | |
|---|---|
| **A. Name** | **Phone Number** |
| U.S. Department of Energy, Owner/Operator<br>Central Plateau Cleanup Company LLC, Co-Operator for Integrated Disposal Facility* | (509) 376-7395<br>(509) 372-3845* |
| **Street or P.O. Box** | |
| P.O. Box 550<br>P.O. Box 1464* | |
| **City or Town** | **State** / **ZIP Code** |
| Richland | WA / 99352 |

| B. Operator Type | C. Does the name in VIII.A reflect a proposed change in operator? | | If yes, provide the scheduled date for the change: Month / Day / Year |
|---|---|---|---|
| F | | ☐ Yes | |
| | | ☒ No *~~Co-Operator change~~ | ~~0~~ ~~1~~ ~~2~~ ~~5~~ ~~2~~ ~~0~~ ~~2~~ ~~1~~ |

| D. Is the name listed in VII.A. also the owner? If yes, skip to Section VIII.C. | |
|---|---|
| | ☒ Yes |
| | ☐ No |

| VIII. Facility Owner Information | |
|---|---|
| **A. Name** | **Phone Number (area code and number)** |
| Brian T. Vance, Operator/Facility-Property Owner | (509) 376-7395 |
| **Street or P.O. Box** | |
| P.O. Box 550 | |
| **City or Town** | **State** / **ZIP Code** |
| Richland | WA / 99352 |

| B. Owner Type | C. Does the name in VIII.A reflect a proposed change in owner? | | If yes, provide the scheduled date for the change: Month / Day / Year |
|---|---|---|---|
| F | | ☐ Yes | |
| | | ☒ No | |

| IX. NAICS Codes (5/6 digit codes) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| A. First | | | | | | | B. Second | | | | | | |
| 5 | 6 | 2 | 2 | 1 | | Waste Treatment & Disposal | 9 | 2 | 4 | 1 | 1 | 0 | Administration of Air & Water Resource & Solid Waste Management Programs |
| C. Third | | | | | | | D. Fourth | | | | | | |
| 5 | 4 | 1 | 7 | 1 | | Research & Development in the Physical, Engineering, & Life Sciences | | | | | | | |

| X. Other Environmental Permits (see instructions) | | |
|---|---|---|
| A. Permit Type | B. Permit Number | C. Description |
| | | |
| | | |

**XI. Nature of Business (provide a brief description that includes both dangerous waste and non-dangerous waste areas and activities)**

The Integrated Disposal Facility (IDF) is an expandable lined landfill located in the 200 East Area of the Hanford Facility. The landfill is divided lengthwise into distinct east and west cells, one for disposal of lowlevel radioactive waste (the east cell) and the other for disposal of mixed waste (the west cell). The cell for disposal of low-level radioactive waste is outside the scope of this permit.

Mixed waste disposed at the IDF is currently limited to vitrified low-activity waste (LAW) from the Waste Treatment Plant (WTP) and Demonstration Bulk Vitrification System (DBVS). Additionally, mixed waste generated by IDF operations will be disposed of in IDF. (The IDF Permit requires modification if other waste streams are proposed for disposal.) The vitrified waste form generated by both the WTP and the DBVS facilities is known as Immobilized Low Activity Waste (ILAW). The amount shown in Section XII of 8.2-hectare meters (82,000 cubic meters) is the waste capacity of the initial construction. The amount will be revised as required for future expansion to accommodate the entire waste volume through an approved permit modification.

The IDF Leachate Collection System consists of two ~~leachate collection tanks~~miscellaneous units used to store liquid leachate (F039), located north of the IDF Disposal Cells. ~~and are used for storage of liquid dangerous waste (leachate) from the IDF disposal cell.~~ The ~~tanks~~miscellaneous units are approximately 30.9 m (101.5 ft) in diameter and 2.5 m (8.2 ft) high, and are constructed of corrugated steel. The bottom of the ~~tank~~ side wall for each unit is bolted to a 0.45 m (1.5 ft) thick, 1.4 m (4.5 ft) deep concrete ringwall. A dual containment liner system is connected to the top, inside wall of each ~~tank~~unit. Each ~~tank system~~unit includes ancillary equipment required for the transfer of leachate from the disposal cells. This equipment is comprised of the Crest Pad Building, Leachate Transfer Building, combined sump, and transfer piping.

**D80**

Mixed radioactive high level wastes stored in the Double-Shell and Single-Shell Tank System carry the characteristic dangerous waste numbers D002, and D004 through D011 . The specified technology based treatment standard for high-level radioactive waste as described in 40 CFR 268.40 (vitrification) will be used to produce the waste form that will be placed in steel canisters or steel boxes. Tank waste will meet this vitrification standard as the waste exits at the Waste Treatment Plant or Demonstration Bulk Vitrification System Facility. (Permit conditions for the WTP and DBVS require that the D001 and D003 waste codes be removed prior to the waste stream entering these

facilities.) IDF operational activities (including decontamination, cleanup, and maintenance) will generate a small amount of waste. Waste that can meet IDF waste acceptance without treatment will be buried at the IDF. All other IDF operational waste will be managed pursuant to WAC 173-303-200 and either sent to a 90-day accumulation area or directly to another permitted TSD for treatment. Treated IDF operational waste will either be buried at IDF or sent to another permitted Hanford TSD for final disposition.

**S01**

Process Code S01 (container storage) has been included within this Part A Form in the event that storage is required before final disposal (e.g., to support the staging and confirmation process of the waste or cooling of vitrified waste if required).

**X99**

Leachate from the IDF Disposal Cells is conveyed from the leachate collection and removal system to the Leachate Collection System. Each Leachate Collection ~~Tank~~Unit has a working capacity of 1,420,000 L (375,000 gal).

**EXAMPLE FOR COMPLETING ITEMS XII and XIII (shown in lines numbered X-1, X-2, and X-3 below):**
A facility has two storage tanks that hold 1200 gallons and 400 gallons respectively. There is also treatment in tanks at 20 gallons/hr. Finally, a one-quarter acre area that is two meters deep will undergo *in situ vitrification.*

| XII. Process Codes and Design Capacities | | | | | XIII. Other Process Codes | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Line Number | A. Process Codes | B. Process Design Capacity | | C. Process Total Number of Units | Line Number | A. Process Codes | B. Process Design Capacity | | C. Process Total Number of Units | D. Process Description |
| | | 1. Amount | 2. Unit of Measure | | | | 1. Amount | 2. Unit of Measure | | |
| ***X1*** | ***S02*** | ***1,600*** | ***G*** | ***002*** | ***X1*** | ***T04*** | ***700*** | ***C*** | ***001*** | ***In situ vitrification*** |
| ***X2*** | ***T03*** | ***20*** | ***E*** | ***001*** | | | | | | |
| ***X3*** | ***T04*** | ***700*** | ***C*** | ***001*** | | | | | | |
| **1** | D80 | 8.2 | F | 1 | | | | | | |
| **2** | S01 | * | * | 1 | | | | | | |
| **3** | X99 | 750,000 | G | 0021 | | | | | | |
| **4** | | | | | | | | | | |
| **5** | | | | | | | | | | |
| **6** | | | | | | | | | | |
| **7** | | | | | | | | | | |
| **8** | | | | | | | | | | |
| **9** | | | | | | | | | | |
| **10** | | | | | | | | | | |
| **11** | | | | | | | | | | |
| **12** | | | | | | | | | | |

## XIV. Description of Dangerous Wastes

**Example for completing this section:** A facility will receive three non-listed wastes, then store and treat them on-site. Two wastes are corrosive only, with the facility receiving and storing the wastes in containers. There will be about 200 pounds per year of each of these two wastes, which will be neutralized in a tank. The other waste is corrosive and ignitable and will be neutralized then blended into hazardous waste fuel. There will be about 100 pounds per year of that waste, which will be received in bulk and put into tanks.

| Line Number | A. Dangerous Waste No. | | | | B. Estimated Annual Quantity of Waste | C. Unit of Measure | D. Processes | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | (1) Process Codes | | | | | | | | (2) Process Description [If a code is not entered in D(1)] |
| *X1* | *D* | *0* | *0* | *2* | *400* | *P* | *0* | *1* | *T* | *0* | *1* | | | | |
| *X2* | *D* | *0* | *0* | *1* | *100* | *P* | *0* | *2* | *T* | *0* | *1* | | | | |
| *X3* | *D* | *0* | *0* | *2* | | | | | | | | | | | *Included with above* |
| **1** | D | 0 | 0 | 2 | 20,000,000 | K | | | D | 8 | 0 | | | | Includes Debris |
| **2** | D | 0 | 0 | 4 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **3** | D | 0 | 0 | 5 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **4** | D | 0 | 0 | 6 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **5** | D | 0 | 0 | 7 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **6** | D | 0 | 0 | 8 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **7** | D | 0 | 0 | 9 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **8** | D | 0 | 1 | 0 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **9** | D | 0 | 1 | 1 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **10** | D | 0 | 1 | 8 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **11** | D | 0 | 1 | 9 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **12** | D | 0 | 2 | 2 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **13** | D | 0 | 2 | 8 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **14** | D | 0 | 2 | 9 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **15** | D | 0 | 3 | 0 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **16** | D | 0 | 3 | 3 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **17** | D | 0 | 3 | 4 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **18** | D | 0 | 3 | 5 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **19** | D | 0 | 3 | 6 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **20** | D | 0 | 3 | 8 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **21** | D | 0 | 3 | 9 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **22** | D | 0 | 4 | 0 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **23** | D | 0 | 4 | 1 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **24** | D | 0 | 4 | 3 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **25** | W | T | 0 | 1 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **26** | W | T | 0 | 2 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **27** | W | P | 0 | 1 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **28** | W | P | 0 | 2 | | K | | | D | 8 | 0 | | | | Includes Debris |
| **29** | F | 0 | 0 | 1 | | K | | | D | 8 | 0 | | | | Includes Debris |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 30 | F | 0 | 0 | 2 | | K | | | D | 8 | 0 | | | | Includes Debris |

| Line Number | A. Dangerous Waste No. | | | | B. Estimated Annual Quantity of Waste | C. Unit of Measure | D. Processes | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | (1) Process Codes | | | | | | | | (2) Process Description [If a code is not entered in D(1)] |
| 31 | F | 0 | 0 | 3 | | K | | | D | 8 | 0 | | | | Includes Debris |
| 32 | F | 0 | 0 | 4 | | K | | | D | 8 | 0 | | | | Includes Debris |
| 33 | F | 0 | 0 | 5 | | K | | | D | 8 | 0 | | | | Includes Debris |
| 34 | F | 0 | 3 | 9 | | K | | | D | 8 | 0 | | | | Includes Debris |
| 35 | D | 0 | 0 | 1 | 600,000* | K | | | S | 0 | 1* | | | | Includes Debris |
| 36 | D | 0 | 0 | 2 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 37 | D | 0 | 0 | 3 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 38 | D | 0 | 0 | 4 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 39 | D | 0 | 0 | 5 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 40 | D | 0 | 0 | 6 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 41 | D | 0 | 0 | 7 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 42 | D | 0 | 0 | 8 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 43 | D | 0 | 0 | 9 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 44 | D | 0 | 1 | 0 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 45 | D | 0 | 1 | 1 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 46 | D | 0 | 1 | 8 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 47 | D | 0 | 1 | 9 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 48 | D | 0 | 2 | 2 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 49 | D | 0 | 2 | 8 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 50 | D | 0 | 2 | 9 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 51 | D | 0 | 3 | 0 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 52 | D | 0 | 3 | 3 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 53 | D | 0 | 3 | 4 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 54 | D | 0 | 3 | 5 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 55 | D | 0 | 3 | 6 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 56 | D | 0 | 3 | 8 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 57 | D | 0 | 3 | 9 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 58 | D | 0 | 4 | 0 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 59 | D | 0 | 4 | 1 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 60 | D | 0 | 4 | 3 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 61 | W | T | 0 | 1 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 62 | W | T | 0 | 2 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 63 | W | P | 0 | 1 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 64 | W | P | 0 | 2 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 65 | F | 0 | 0 | 1 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 66 | F | 0 | 0 | 2 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 67 | F | 0 | 0 | 3 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 68 | F | 0 | 0 | 4 | | K | | | S | 0 | 1* | | | | Includes Debris |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 69 | F | 0 | 0 | 5 | | K | | | S | 0 | 1* | | | | Includes Debris |
| Line Number | A. Dangerous Waste No. | | | | B. Estimated Annual Quantity of Waste | C. Unit of Measure | D. Processes | | | | | | | | |
| | | | | | | | (1) Process Codes | | | | | | | | (2) Process Description [If a code is not entered in D(1)] |
| 70 | F | 0 | 3 | 9 | | K | | | S | 0 | 1* | | | | Includes Debris |
| 71 | F | 0 | 3 | 9 | 4,921 | M | | | X | 99 | 9 | | | | Miscellaneous storage |

## XV. Map

**Attach to this application a topographic map of the area extending to at least one (1) mile beyond property boundaries. The map must show the outline of the facility; the location of each of its existing and proposed intake and discharge structures; each of its dangerous waste treatment, storage, recycling, or disposal units; and each well where fluids are injected underground. Include all springs, rivers, and other surface water bodies in this map area, plus drinking water wells listed in public records or otherwise known to the applicant within ¼ mile of the facility property boundary. The instructions provide additional information on meeting these requirements.**

Topographic map is located in the Ecology Library.

## XVI. Facility Drawing

**All existing facilities must include a scale drawing of the facility (refer to Instructions for more detail).**

## XVII. Photographs

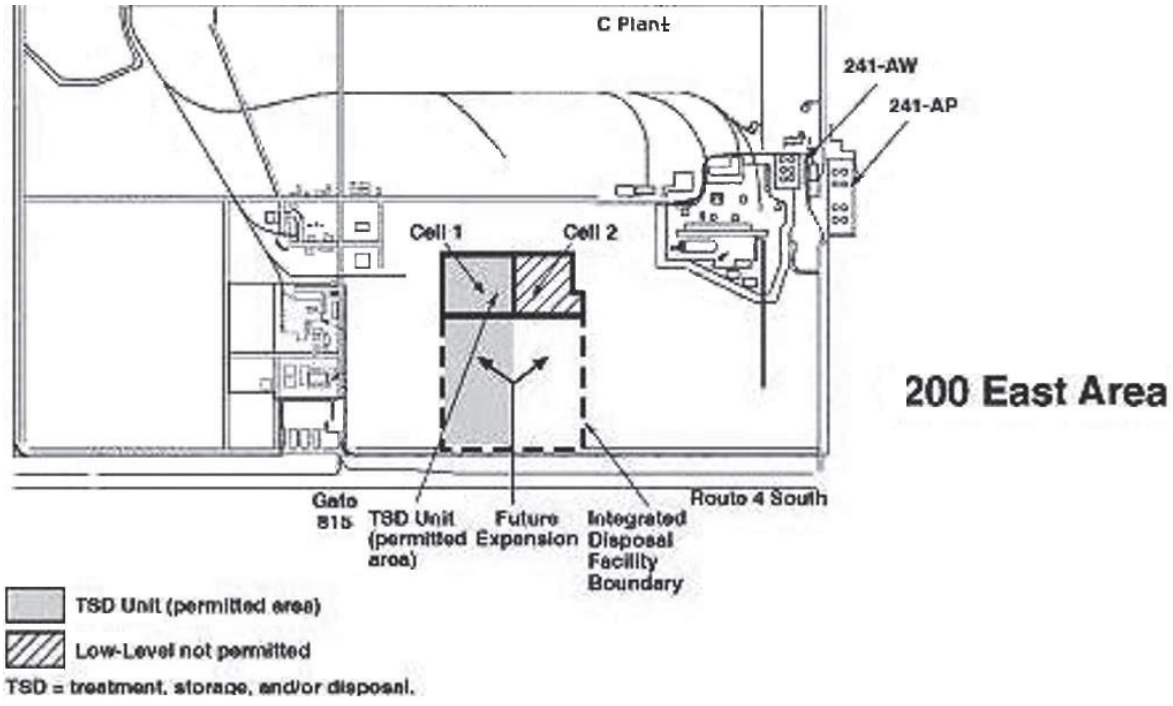
**All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment, recycling, and disposal areas; and sites of future storage, treatment, recycling, or disposal areas (refer to Instructions for more detail).**

## XVIII. Certifications

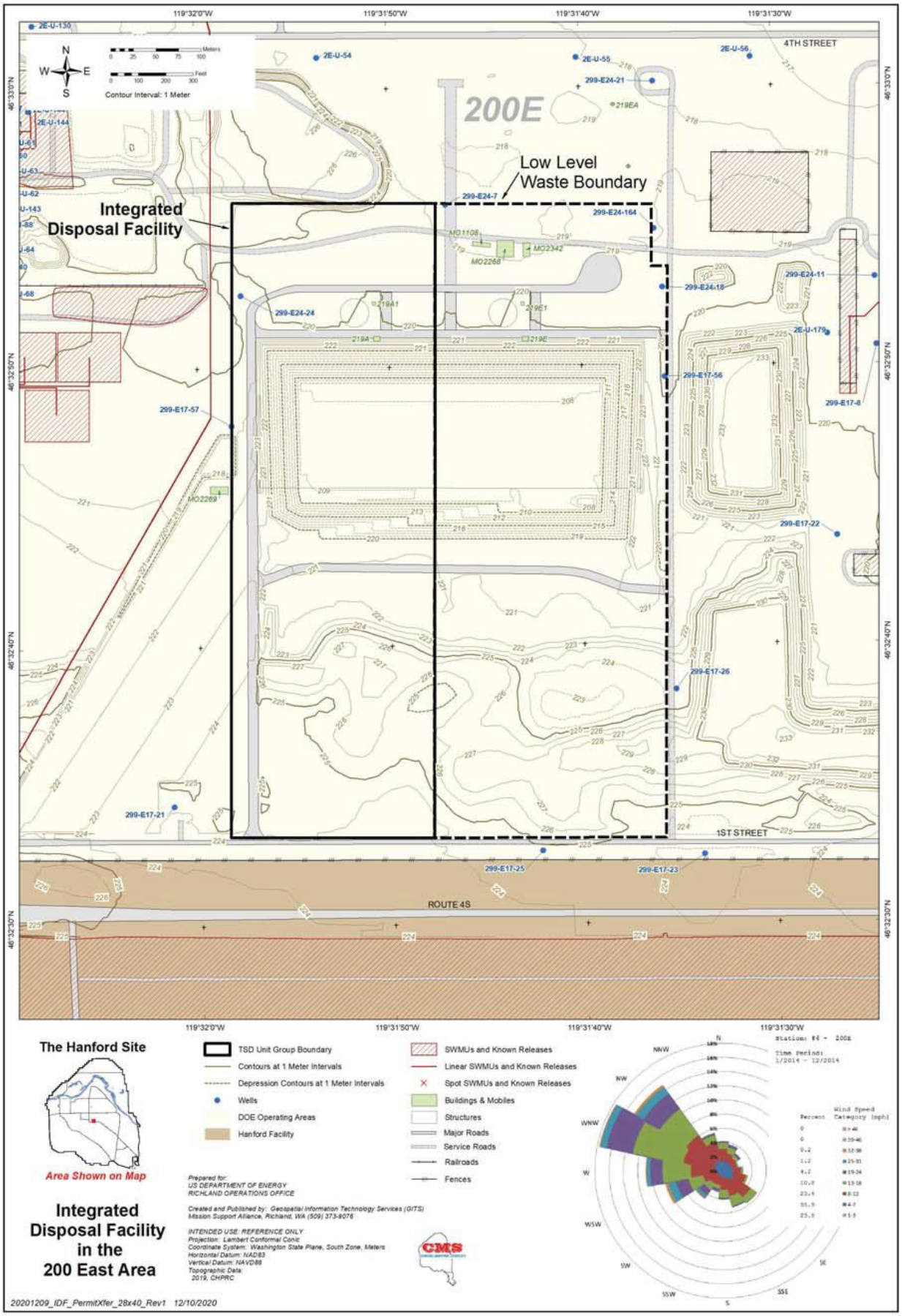
**I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.**

| **Operator** Name and Official Title | **Signature** | **Date Signed** |
|---|---|---|
| Brian T. Vance, Manager<br>U.S. Department of Energy<br>Richland Operations Office | | |
| **Co-Operator*** Name and Official Title<br>~~Scott Sax~~John Eschenberg<br>President and Project Manager<br>Central Plateau Cleanup Company LLC | **Signature** | **Date Signed** |
| **Co-Operator – Address and Telephone Number***<br>P.O. Box 1464<br>Richland, WA 99352<br>(509) 372-3845 | | |
| **Facility-Property Owner** Name and Official Title<br>Brian T. Vance, Manager<br>U.S. Department of Energy<br>Richland Operations Office | **Signature** | **Date Signed** |

| Comments |
| --- |
| ~~In Section IV, Facility Location is revised to update the facility location. In Section VI, Facility contact is revised to update the DOE-RL contact. In Section VII, Facility Operator Information is revised to update change in Co-Operator. In Section VIII, Facility Owner Information is revised to update facility owner name. In Section XVIII, "Certifications" Is revised to update Operator Name, Co-Operator name, and Facility-Property Owner name. The topographic map for the unit is updated to reflect the current mapping conventions. The changes in these sections and the topographic map will be effective January 25, 2021. No other changes have been made to the Part A form sections. The certification is limited to the changes effective January 25, 2021.~~In Section VII.C, selected "No," deleted asterisk for co-operator change, and deleted associated date. The Leachate Collection System dangerous waste management unit description has been added to Section XI. In Section XII, added process code X99 with a process capacity of 750,000 gallons. In Section XIV, added dangerous waste number F039 with an estimated annual quantity of 4,921 metric tons. |




**IDF 200 East Area Locational References**


Integrated Disposal Facility
Low Level Waste Boundary
200E
4TH STREET
1ST STREET
ROUTE 4S
Contour Interval: 1 Meter
The Hanford Site
Area Shown on Map
Integrated Disposal Facility in the 200 East Area
TSD Unit Group Boundary
Contours at 1 Meter Intervals
Depression Contours at 1 Meter Intervals
Wells
DOE Operating Areas
Hanford Facility
SWMUs and Known Releases
Linear SWMUs and Known Releases
Spot SWMUs and Known Releases
Buildings & Mobiles
Structures
Major Roads
Service Roads
Railroads
Fences
Prepared for:
US DEPARTMENT OF ENERGY
RICHLAND OPERATIONS OFFICE
Created and Published by: Geospatial Information Technology Services (GITS)
Mission Support Alliance, Richland, WA (509) 373-9076
INTENDED USE: REFERENCE ONLY
Projection: Lambert Conformal Conic
Coordinate System: Washington State Plane, South Zone, Meters
Horizontal Datum: NAD83
Vertical Datum: NAVD88
Topographic Data: 2019, CHPRC
20201209_IDF_PermitXfer_28x40_Rev1 12/10/2020

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